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CLAIMS

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- 1. A vessel for travelling on water, comprising a hull means and a keel comprising a member depending from the hull means, the member comprising two limbs each depending
- 5 from a respective lateral side of the hull means, the two limbs defining at least in part an enclosed flow path extending in a bow to stern direction, the enclosed flow path being configured to allow water incident on the vessel to flow over inner and outer surfaces of the limbs,
- 10 characterised in that the limbs each have a zero-lift surface which is angled to generate in use a component of hydrodynamic force directed away from the enclosed flow path.
- 2. A vessel according to claim 1, wherein at least one 15 limb comprises a portion having a symmetrical foil section.
 - 3. A vessel according to claim 1 or claim 2, wherein at least one limb comprises an asymmetric foil section.
- 4. A vessel according to any of the preceding claims, wherein the angle of the zero-lift surface of at least one 20 limb is variable.
 - 5. A vessel according to claim 4, wherein at least one limb is of variable camber.
 - 6. A vessel according to claim 5, wherein at least one limb comprises a moveable flap.
- 25 7. A vessel according to claim 5, wherein a portion of at least one limb is moveable.
 - 8. A vessel according to any of the preceding claims, wherein the two limbs each comprise a substantially

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straight portion.

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9. A vessel according to claim 8, wherein the member comprises a pair of substantially straight limbs connected together to form a V-shape as viewed with a portion of the 5 hull means completing the loop to form the enclosed flow path.

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- 10. A vessel according to any of claims 1 to 7, wherein the two limbs are substantially curved.
- 11. A vessel according to any of the preceding claims,
- 10 wherein the two limbs are symmetrically disposed on either side of a central, longitudinal axis of the hull means.
 - 12. A vessel according to any of the preceding claims, wherein the two limbs are directed inwards toward the hull means where they depend from the hull means.
- 15 13. A vessel according to claim 12, wherein the two limbs are substantially perpendicular to the hull means at the point where they meet the hull means.
 - 14. A vessel according to any of the preceding claims, wherein the keel further comprises a ballast portion.
- 20 15. A vessel according to claim 14, wherein the keel comprises a ballast bulb disposed at a lowest part of the keel.
- 16. A vessel according to any of the preceding claims, wherein at least one limb of the keel has a part having a 25 sharp or small radius leading-edge.
 - 17. A vessel according to any of the preceding claims, wherein at least one limb has a part having a leading edge which is locally swept relative to a central, longitudinal

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axis of the hull means.

- 18. A vessel according to claim 17, wherein longitudinal distance between the leading edge of the part and a rearmost part of the hull means decreases with increasing 5 distance from the hull means.
 - 19. A vessel according to any of the preceding claims, wherein each limb has a lower part which is longitudinally offset relative to an upper part thereof.
- 20. A vessel according to claim 19, wherein the lower 10 portion of each limb is offset relative to the upper part towards a front part of the hull means.